

Challenge of Assuring National and Global Infrastructures

Roger M. Callahan June 27, 2000

Banking and Finance Sector Panel

- Financial Services Information Sharing and Analysis Center (FS-ISAC)
- Physical and Cyber: Infrastructure Assurance
 - (A Personal Perspective)

"confidence and surety"

THE FINANCIAL SERVICES INFORMATION SHARING ANALYSIS CENTER (FS/ISAC)



Background

- In May 1998 Presidential Decision Directive (PDD) 63 was issued. It:
 - Established goals for Critical Infrastructure Protection, including the Banking and Finance sector
 - Recommended each sector protect itself from intentional acts which may diminish its capabilities
 - Requests implementation by May 2003
- The Banking and Finance Sector PDD-63 Working Group Goals are:
 - > Assure the viability and continuity of the Banking and Finance Sector
 - Ensure confidence in the ability to prevent, detect, and respond to incidents
 - Foster sharing of relevant information



FS/ISAC Overview

• The FS/ISAC is:

- A private sector partnership between eligible financial services providers and the FS-ISAC, LLC
- **Designed to allow members to anonymously submit security incidents and receive alerts of serious incidents**
- A database structured to allow members to search for incidents, vulnerabilities, threats, and solutions

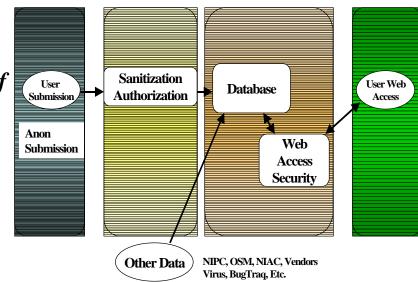
Membership limited to:

- > FDIC insured banks
- **Licensed Insurance companies**
- Regulated industry utilities
- NASD licensed investment firms
- Specialized/regulated banking firms
- The FS/ISAC is available and operated 24 hours per day, 365 days per year

ISAC Functionality

Anonymous, private, authenticated submission

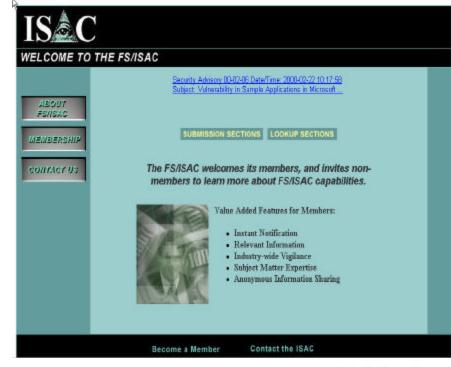
- Web-based (primary), email backup
- Designed for anonymous submission of incidents
- Multiple levels of analysis
 - Passthrough
 - Sanitization
 - Trending and analysis
- Multiple types of notification
 - Normal, Urgent, Crisis





Features

- Two major sections of FS/ISAC:
- Submission Section
 - Anonymous
 - Incidents
- Lookup Section
 - Threats
 - Vulnerabilities
 - Incidents
 - Solutions, Resolutions
 - Trend Analysis





Access

Members

- Full access to all information
- Notification of any correlation of information
- Notification via pager or digital cell phone and e-mail -depending on the severity of the incident

• Vendors

- Input regarding their products
- Notification of threats or incidents with respect to their products
- No access to the database

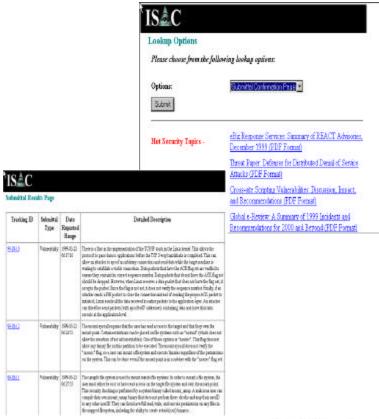
• Government

• Input only, no database access



Lookup

- When notified of incident, members access the lookup section, which is attributable
- The lookup section provides details on:
 - Threats
 - Vulnerabilities
 - Incidents
 - Solutions, Resolutions
 - Trend Analysis





Board of Managers

- Steve Katz, Citigroup (Chairman)
- Stash Jarocki, DTCC (Administrator)
- Warren Axelrod, Pershing
- Roger Callahan, Bank of America
- Paul Mayerowitz, SIAC
- Bruce Moulton, Fidelity
- Steve Ruegnitz, Morgan Stanley Dean Witter
- Bill Sentenac, Wells Fargo



Membership Benefits

- Early Notification Near-time notification gives maximum time to address incidents
- Relevant Information Members receive focused data eliminating the need to sift through unnecessary detail
- Industry-wide Vigilance Information sharing means each participant benefits from the combined experience of all members
- Subject Matter Expertise Expert analysts ensure members are receiving the most accurate information possible
- Anonymous Information Sharing Submitting information without revealing member identities facilities cooperation while protecting proprietary interests
- Trending Members Early are provided with trend data on threats, vulnerabilities, and incidents impacting the financial services industry

Contact Information

For more information on FS/ISAC:

Phone: (888) 660-0134; Web Site: http://www.fsisac.com

Or Contact:

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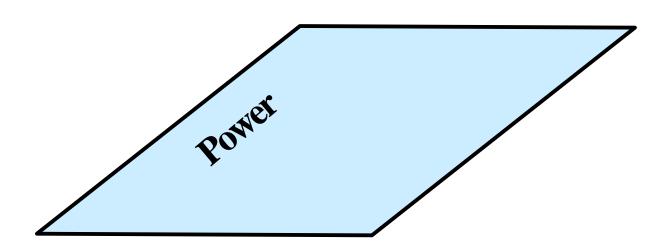
Margie Sutphin, FS/ISAC Coordinator

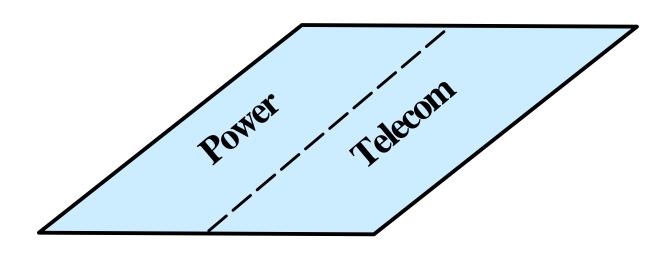
Phone: 703.375.2305; email: margie.sutphin@globalintegrity.com

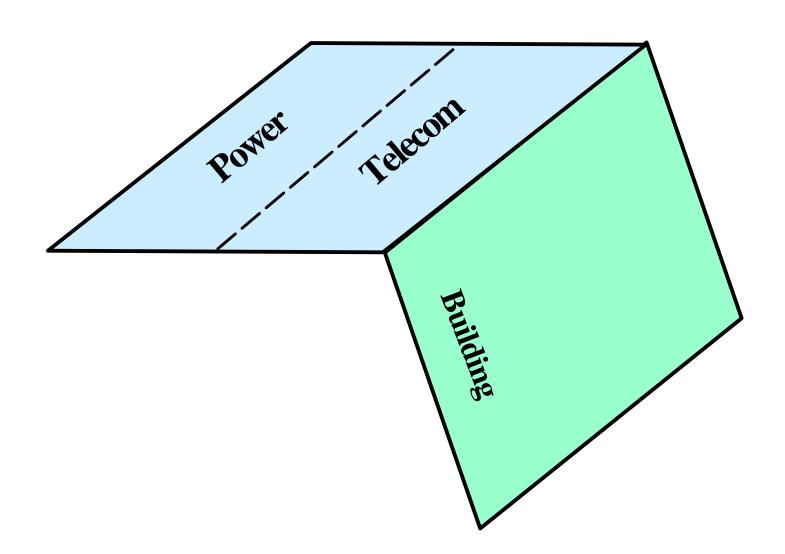


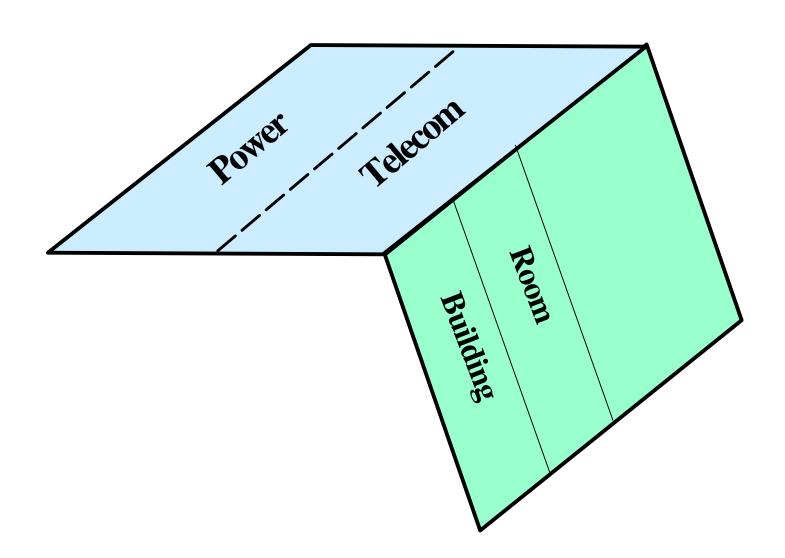
Infrastructure Assurance

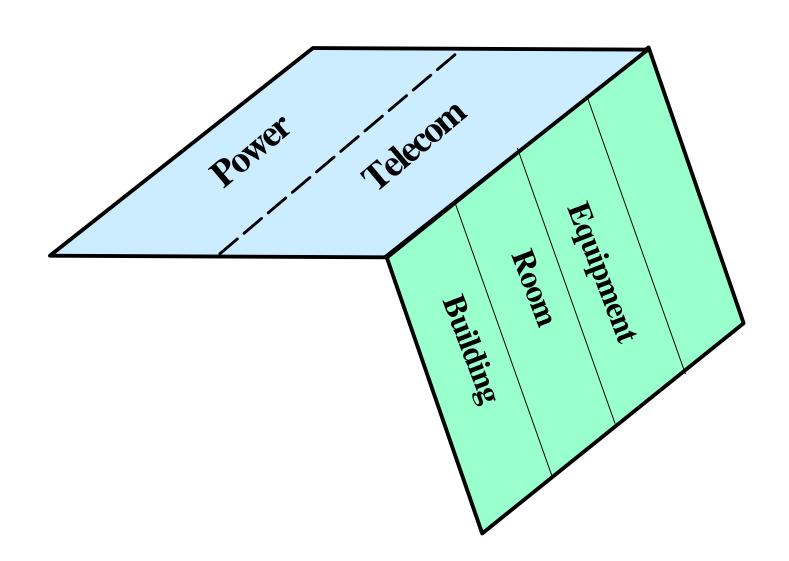
- Business and Operational Perspective
 - Confidence
 - Surety
- Interdependencies Physical & Cyber
 - Analyst
 - Preparedness
 - Event Management

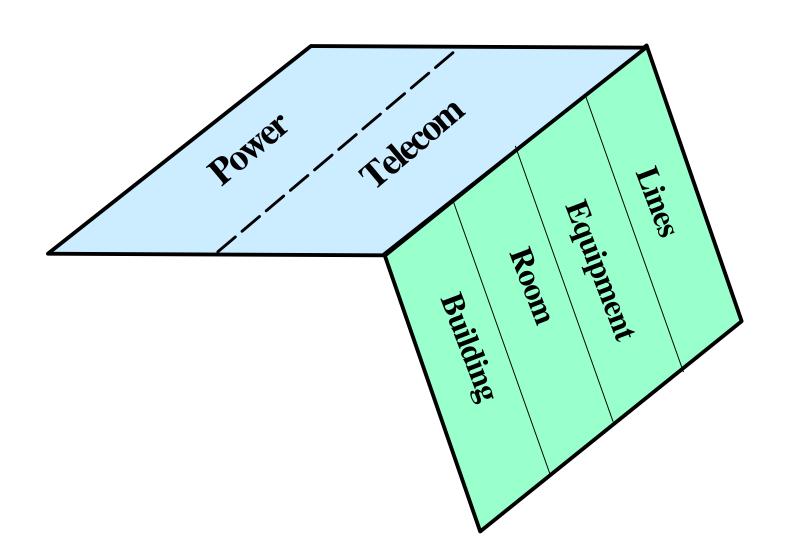


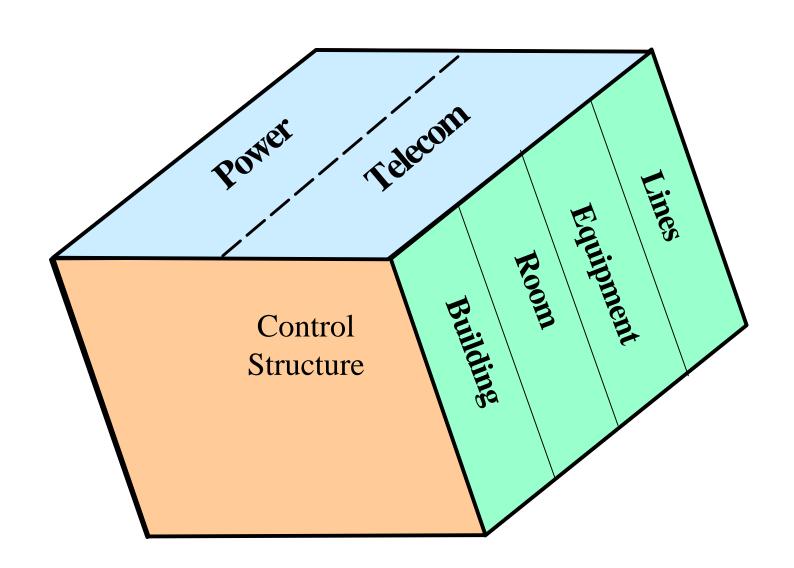


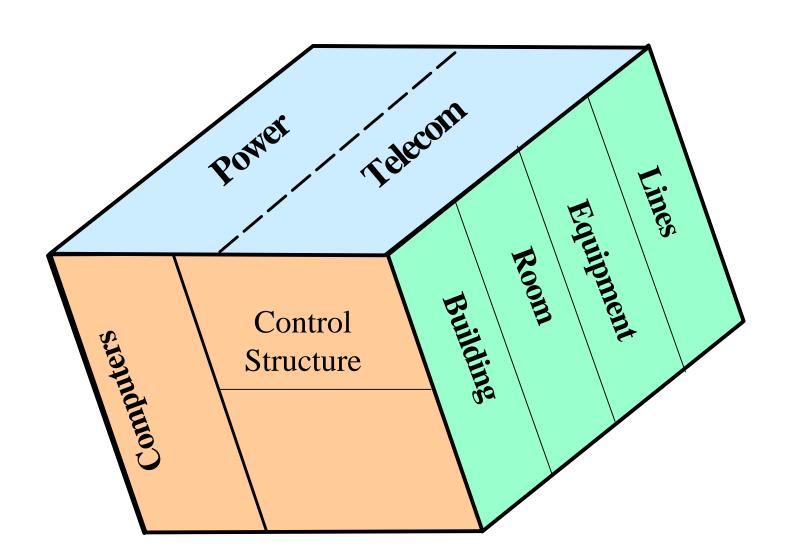


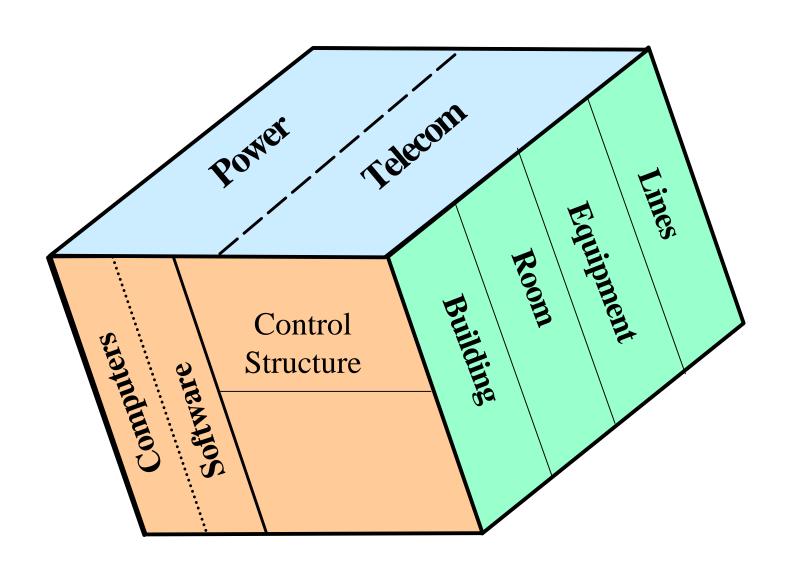


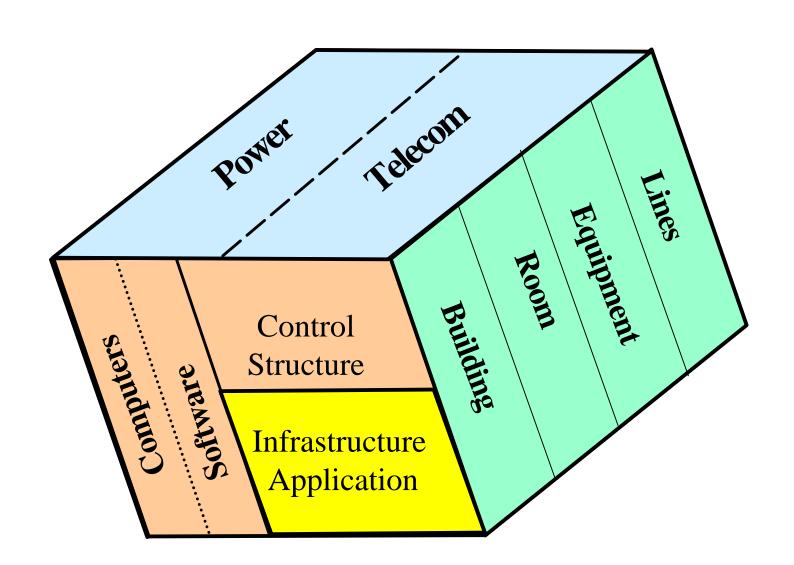


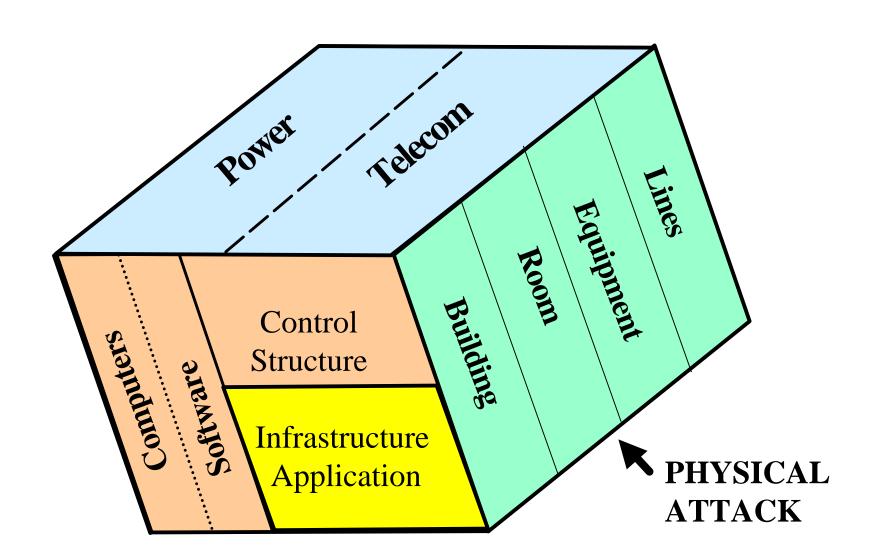


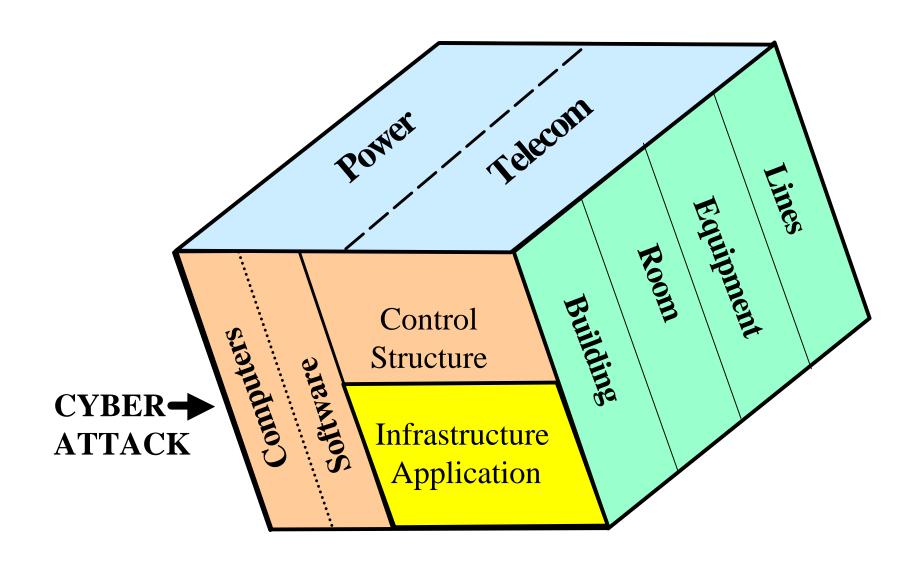


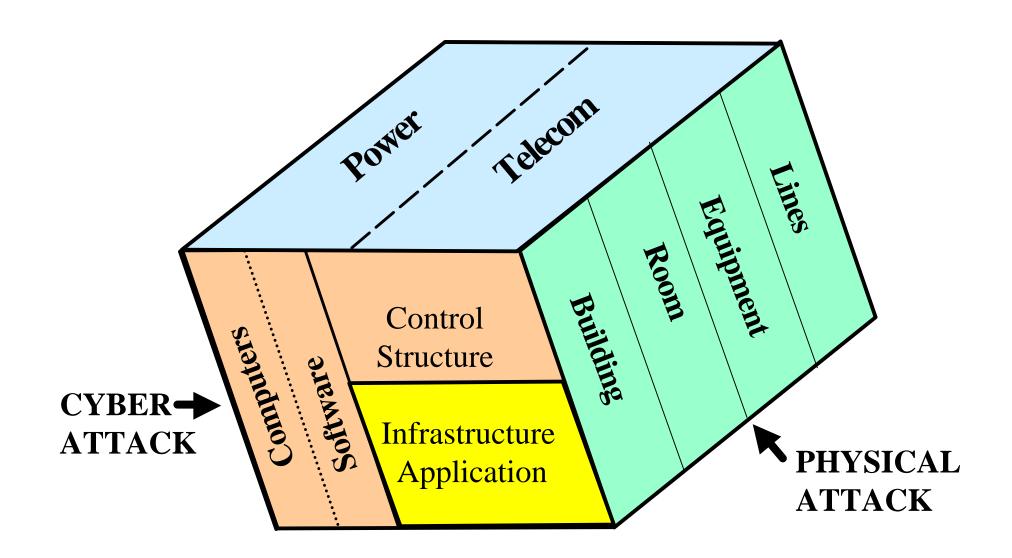


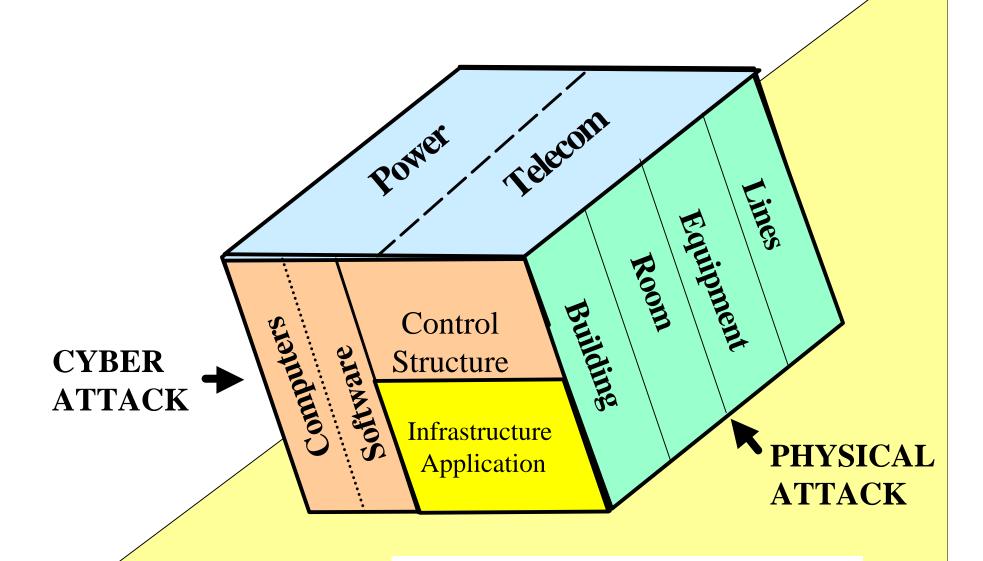






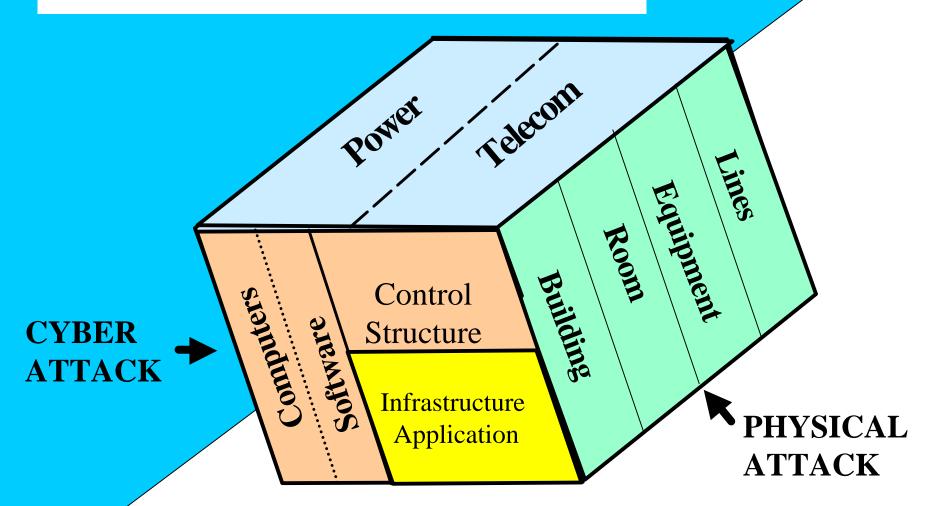




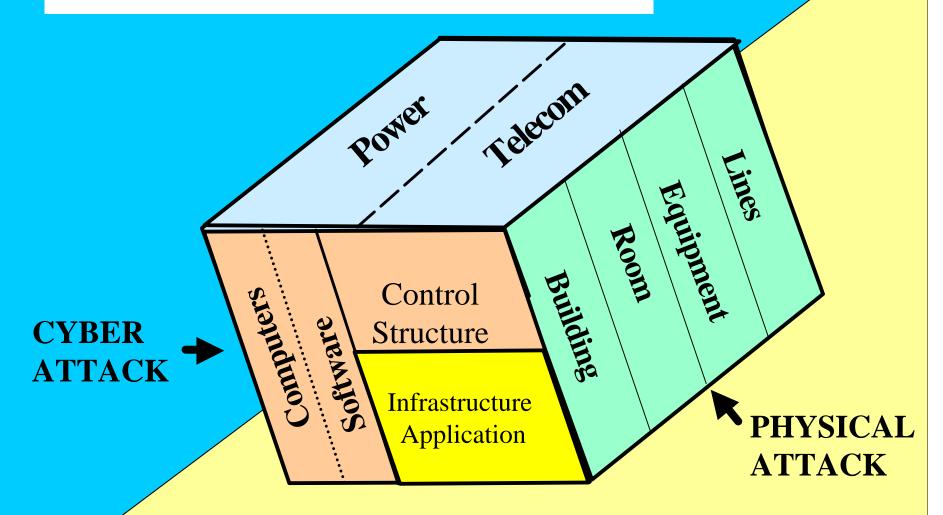


PHYSICAL SECURITY

INFORMATION ASSURANCE

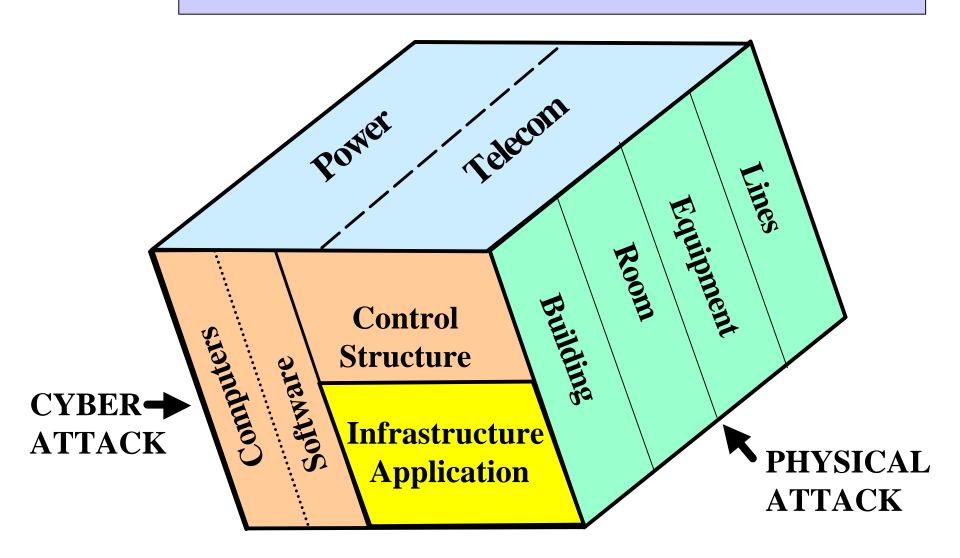


INFORMATION ASSURANCE

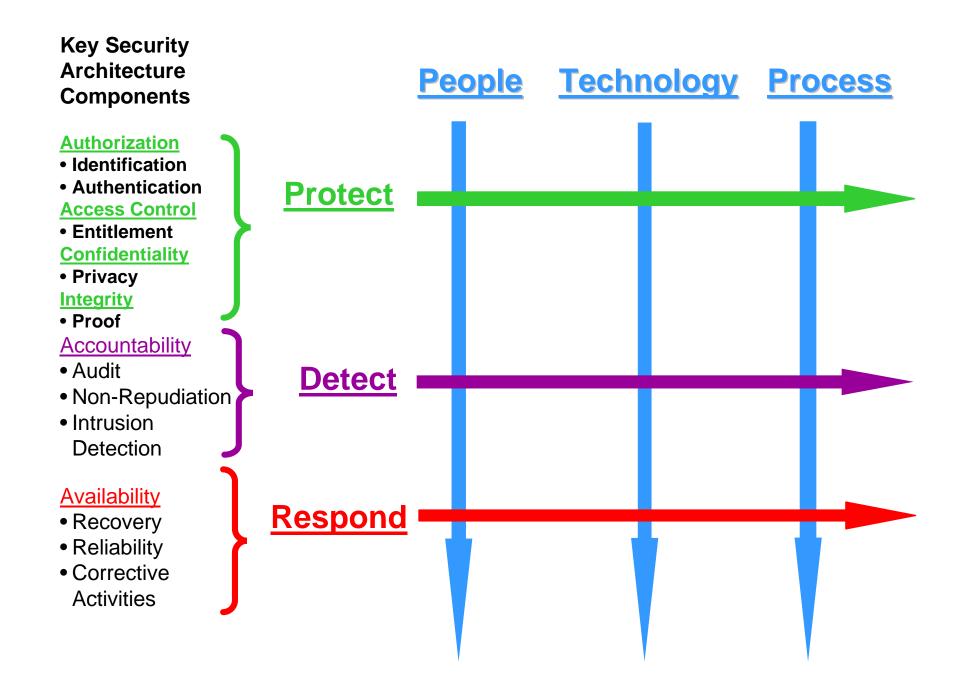


PHYSICAL SECURITY

GOAL: INFRASTRUCTURE ASSURANCE



PROTECT
DETECT
RESPOND
RECOVER
RECONSTITUTE



PROTECT

DETECT • information sharing + analysis

RECOVER

RECONSTITUTE

PROTECT DETECT

RESPOND

Preparedness:

Plans,

Procedures &

Coordination*



RECOVER

RECONSTITUTE

(to complete the picture)

PROTECT DETECT RESPOND RECOVER RECONSTITUTE

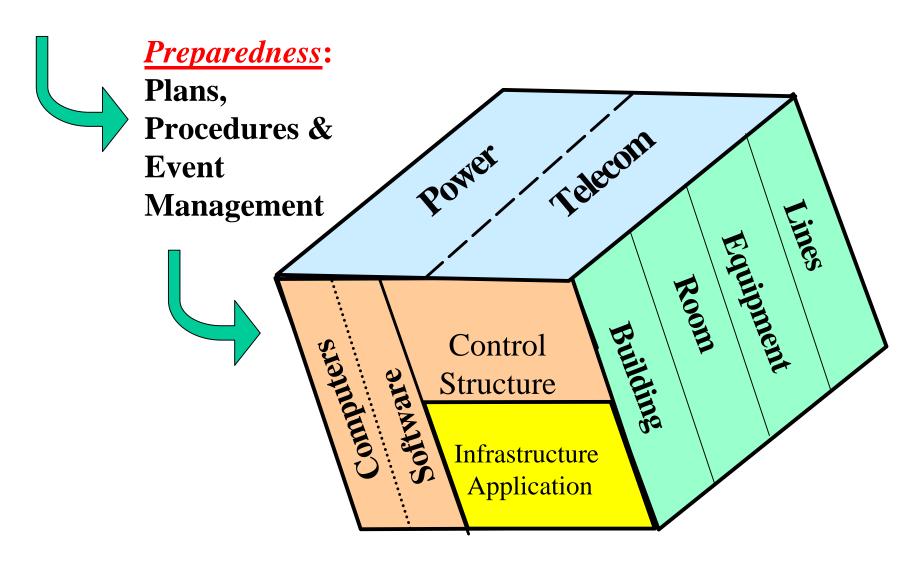
National Security Response



RETALIATE

DETERENCE

Key Challenge - Recover and Reconstitute





Challenge of Assuring National and Global Infrastructures

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